

# Anti-Histone H3.1 antibody(Clone No.6G3C7)

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
6G3C7	Hu, Mk, Ms, Rat, Hms	WB	Rat	IgG1, $\lambda$	-20°C

**BACKGROUND** : Nucleosomes are composed of four different histone proteins, designated H3, H4, H2A, and H2B. Histone H3 has two main variants, H3.1 and H3.3, which show different genomic localization patterns in eukaryotes. Deposition of Histone H3.1 is coupled to DNA synthesis during DNA replication and possibly DNA repair.

**Immunogen** Synthetic peptide corresponding to core region (aa 79-97) of human H3.1, KTDLRFQSSAVMALQEASE

**Host** Rat

**Isotype** IgG1,  $\lambda$

**Cross reactivity** Human, Monkey, Mouse, Rat, Hamster

**Specificity** Histone H3.1/3.2

**Application notes** Recommended use

ELISA, WB

Recommended dilutions

Western blotting, 1/10000

Optional dilutions/concentrations should be determined by the end user.

**Source** Culture Supernatant

**Purification** Ion-exchange chromatography

**Form** Liquid

**Presentation** Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300

**Concentration** 1 mg/mL

**Volume** 100  $\mu$ L

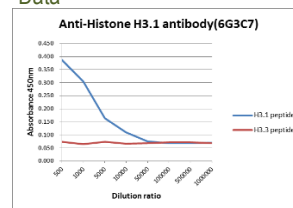
**Storage** Store below -20°C

(below -70°C for prolonged storage)

Aliquot to avoid cycles of freeze/thaw.

**References** 1) Hake and Allis, (2006) PNAS, 103, 6428-6435.  
2) Harada et al., (2012) EMBO J. doi: 10.1038/emboj.2012.136.  
This antibody is used in ref.2.

## Data



H3.1 peptide 79 KTDLRFQSSAVMALQEASEA 97  
H3.3 peptide 79 KTDLRFQSSAATGALQEASEA 97

Fig.1 ELISA analysis  
- Histone H3.1/H3.2 antibody (6G3C7)

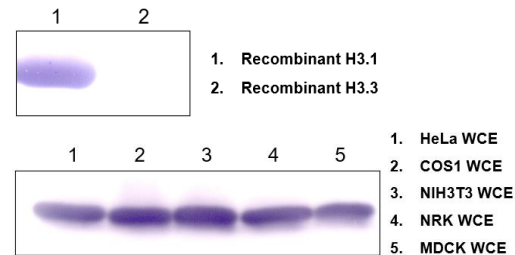


Fig.2 Western blot  
- Histone H3.1/H3.2 antibody (6G3C7)  
recombinant protein and the mammalian cell total extracts